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PASSWORD:
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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAR 15	WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 3	MAR 16	CASREACT coverage extended
NEWS 4	MAR 20	MARPAT now updated daily
NEWS 5	MAR 22	LWPI reloaded
NEWS 6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS 7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS 8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS 9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS 10	APR 30	CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS 12	MAY 01	New CAS web site launched
NEWS 13	MAY 08	CA/CAplus Indian patent publication number format defined
NEWS 14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS 15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS 16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS 17	MAY 21	CA/CAplus enhanced with additional kind codes for German patents
NEWS 18	MAY 22	CA/CAplus enhanced with IPC reclassification in Japanese patents
NEWS 19	JUN 27	CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 20	JUN 29	STN Viewer now available
NEWS 21	JUN 29	STN Express, Version 8.2, now available
NEWS 22	JUL 02	LEMBASE coverage updated
NEWS 23	JUL 02	LMEDLINE coverage updated
NEWS 24	JUL 02	SCISEARCH enhanced with complete author names
NEWS 25	JUL 02	CHEMCATS accession numbers revised
NEWS 26	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 27	JUL 16	CAplus enhanced with French and German abstracts
NEWS 28	JUL 18	CA/CAplus patent coverage enhanced
NEWS 29	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 06:33:42 ON 30 JUL 2007

=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

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DICTIONARY FILE UPDATES:  29 JUL 2007  HIGHEST RN 943590-78-1

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http://www.cas.org/support/stngen/stndoc/properties.html

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Uploading C:\Program Files\Stnexp\Queries\10524204.str
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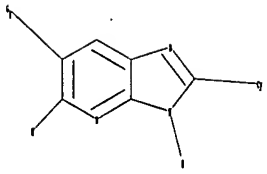

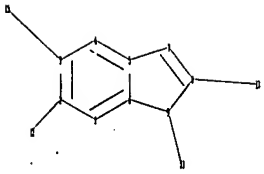

chain nodes :
11 12 13 15
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
2-12 3-15 8-13 9-11
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
3-15 5-7 6-9 7-8 8-9 8-13
exact bonds :
2-12 9-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:O,CN,X,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
12:CLASS 13:Atom 15:CLASS

L1 STRUCTURE UPLOADED

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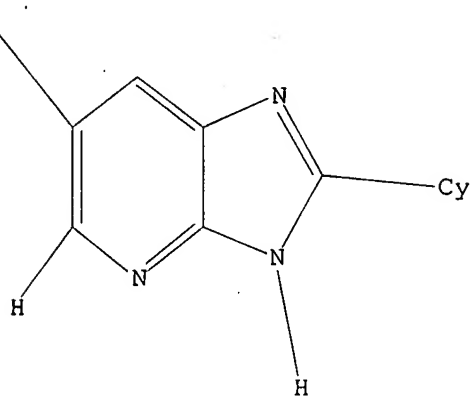
L1 STR

G1



G1 O,CN,X,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 06:34:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2445 TO ITERATE

81.8% PROCESSED 2000 ITERATIONS 46 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 45934 TO 51866
PROJECTED ANSWERS: 675 TO 1573

L2 46 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 06:34:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 48076 TO ITERATE

100.0% PROCESSED 48076 ITERATIONS 1043 ANSWERS
SEARCH TIME: 00.00.01

L3 1043 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 172.31

FILE 'CAPLUS' ENTERED AT 06:34:18 ON 30 JUL 2007

FILE COVERS 1907 - 30 Jul 2007 VOL 147 ISS 6
FILE LAST UPDATED: 29 Jul 2007 (20070729/ED)

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http://www.cas.org/infopolicy.html

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=> s l3 full
L4          55 L3

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      21892403 PY<2002
L5          22 L4 AND PY<2002

=> d ibib abs hitstr 1-10

L5   ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2001:472714  CAPLUS
DOCUMENT NUMBER:          135:76871
TITLE:                    Preparation of substituted homopiperidinyl
                          benzimidazole analogues as fundic relaxants
INVENTOR(S):              Janssens, Frans Eduard; Guillemont, Jerome Emile
                          Georges; Sommen, Francois Maria
PATENT ASSIGNEE(S):       Janssen Pharmaceutica N.V.; Belg.
SOURCE:                   PCT Int. Appl., 51 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

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     WO 2001046189        A1    20010628    WO 2000-EP12858          20001214 <--
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             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     TW 225488            B     20041221    TW 2000-89126315         20001211
     CA 2393158           A1    20010628    CA 2000-2393158          20001214 <--
     BR 2000016638        A     20021001    BR 2000-16638            20001214
     EP 1250337           A1    20021023    EP 2000-985180           20001214
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     HU 200203847         A2    20030328    HU 2002-3847             20001214
     JP 2003518118        T     20030603    JP 2001-547099           20001214
     EE 200200326         A     20031015    EE 2002-326              20001214
     AU 781144            B2    20050505    AU 2001-21673            20001214
     BG 106749            A     20030131    BG 2002-106749           20020529
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IN 2002MN00745	A	20050304	IN 2002-MN745		20020607
US 2003139393	A1	20030724	US 2002-169011		20020619
NO 2002002977	A	20020808	NO 2002-2977		20020620
NO 322362	B1	20060925			
ZA 2002004983	A	20030922	ZA 2002-4983		20020620
MX 2002PA06346	A	20021213	MX 2002-PA6346		20020621
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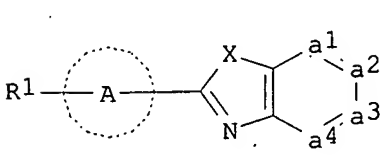
			WO 2000-EP12858	W	20001214

OTHER SOURCE(S): MARPAT 135:76871
GI



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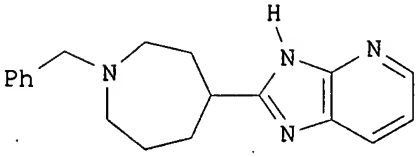
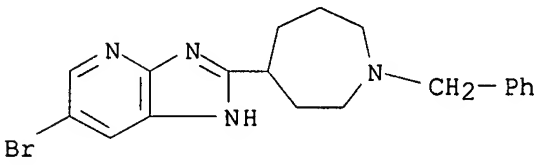


II

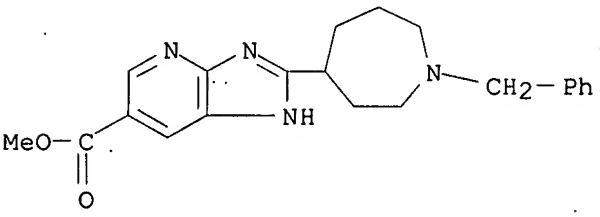
AB The title compds. [I; the bivalent radical A = (un)substituted (un)saturated homopiperidinyl; a1:a2a3:a4 = CH:CHCH:CH, N:CHCH:CH, CH:NCH:CH, etc.; R1 = H, alkyl, aryl, etc.; X = O, S, NH, etc.] and their prodrugs, N-oxides, addition salts, quaternary amines and stereochem. isomeric forms, useful as a medicine, in particular for treating dyspeptic symptoms, irritable bowel syndrome and other conditions related to a hampered or impaired relaxation of the fundus, were prepared E.g., a 2-step synthesis of II which showed the mean maximal change of 87 mL in gastric volume on relaxation of the fundus, 1 h after S.C. administration at 0.63 mg/kg, was given.

IT 346734-54-1P 346734-77-8P 346734-91-6P
346734-92-7P 346734-93-8P 346734-94-9P
346734-95-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted homopiperidinyl benzimidazole analogs as fundic relaxants)

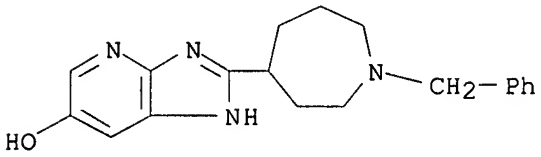
RN 346734-54-1 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-[hexahydro-1-(phenylmethyl)-1H-azepin-4-yl]- (9CI) (CA INDEX NAME)



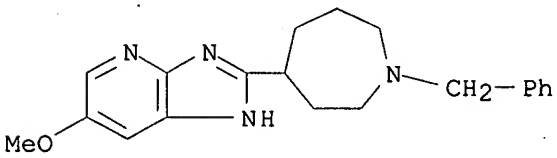
RN 346734-77-8 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine-6-carboxylic acid, 2-[hexahydro-1-(phenylmethyl)-1H-azepin-4-yl]-, methyl ester (9CI) (CA INDEX NAME)



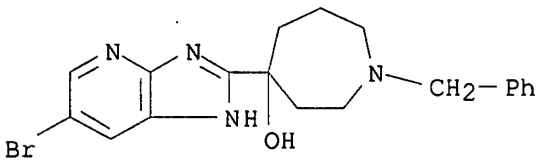
RN 346734-91-6 CAPLUS
CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[hexahydro-1-(phenylmethyl)-1H-azepin-4-yl]- (9CI) (CA INDEX NAME)



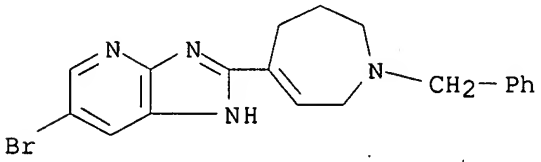
RN 346734-92-7 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 2-[hexahydro-1-(phenylmethyl)-1H-azepin-4-yl]-6-methoxy- (9CI) (CA INDEX NAME)



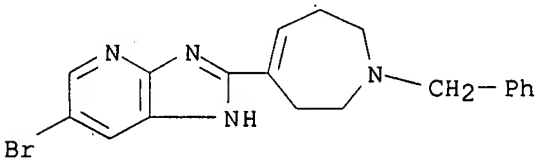
RN 346734-93-8 CAPLUS
CN 1H-Azepin-4-ol, 4-(6-bromo-1H-imidazo[4,5-b]pyridin-2-yl)hexahydro-1-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 346734-94-9 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-[2,5,6,7-tetrahydro-1-(phenylmethyl)-1H-azepin-4-yl]- (9CI) (CA INDEX NAME)

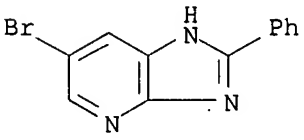


RN 346734-95-0 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-[2,3,6,7-tetrahydro-1-(phenylmethyl)-1H-azepin-4-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:395258 CAPLUS
DOCUMENT NUMBER: 135:152753
TITLE: Structure and reactions of monoanils obtained from 2,3-pyridinediamines
AUTHOR(S): Dubey, P. K.; Kulkarni, Subhash M.; Kumar, R. Vinod
CORPORATE SOURCE: Department of Chemistry, College of Engineering, J N T University, Hyderabad, 500 072, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2001), 40B(5), 361-367
CODEN: IJSBDB; ISSN: 0376-4699
PUBLISHER: National Institute of Science Communication, CSIR
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:152753
AB The reaction of 2,3-pyridinediamines with aromatic aldehydes results in the formation of 2-amino-3-arylideneaminopyridines (I), resp. Dehydrogenative cyclization of I with different reagents give 2-aryl-1H-imidazo[4,5-b]pyridines. Reactions of I with different reagents have been described.
IT 65147-89-9P 331416-68-3P 332419-69-9P
332419-72-4P 332419-75-7P 352672-83-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and reactions of monoanils obtained from 2,3-pyridinediamines)
RN 65147-89-9 CAPLUS
CN 3H-Imidazo[4,5-b]pyridine, 6-bromo-2-phenyl- (CA INDEX NAME)



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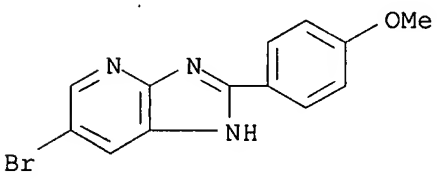
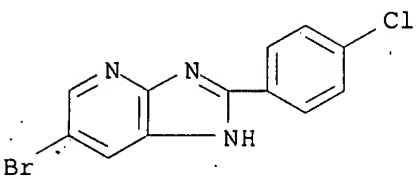


RN 332419-69-9 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



RN 332419-72-4 CAPLUS

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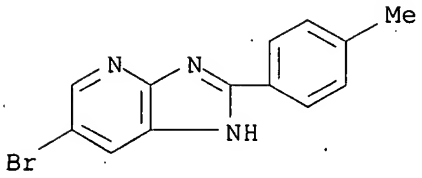
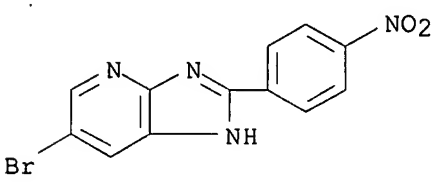


RN 332419-75-7 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 352672-83-4 CAPLUS
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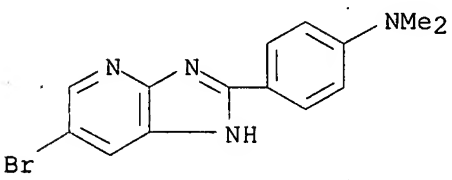


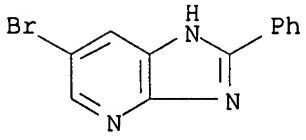
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:76706 CAPLUS
DOCUMENT NUMBER: 134:280662
TITLE: Studies on aroylation of 2,3-pyridinediamines
AUTHOR(S): Dubey, P. K.; Kumar, R. Vinod
CORPORATE SOURCE: Department of Chemistry, College of Engineering, J.N.T.University, Hyderabad, 500 072, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (2000), 39B(10), 746-751
CODEN: IJSBDB; ISSN: 0376-4699
PUBLISHER: National Institute of Science Communication, CSIR
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:280662
AB The reaction of 2,3-pyridinediamine and its 5-bromo analog, independently, with acid chloride or anhydride does not yield the diaroyl derivative and instead yields the cyclized product or the monoaroyl derivative depending upon the conditions. Studies on the attempted condensation of the monoaroyl derivative with acid chlorides have been described and a rational explanation has been offered for the unusual resistance of the 2-amino group towards further attack by electrophiles.
IT 65147-89-9P 331416-68-3P 332419-69-9P 332419-72-4P 332419-75-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(aroylation of 2,3-pyridinediamines)

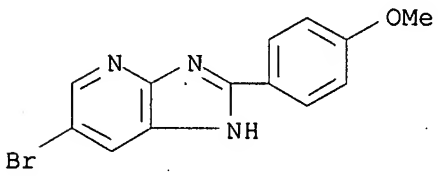
RN 65147-89-9 CAPLUS

CN 3H-Imidazo[4,5-b]pyridine, 6-bromo-2-phenyl- (CA INDEX NAME)



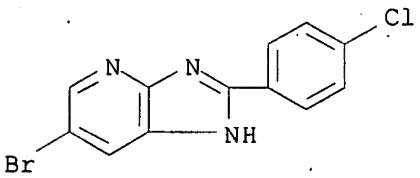
RN 331416-68-3 CAPLUS

CN 3H-Imidazo[4,5-b]pyridine, 6-bromo-2-(4-methoxyphenyl)- (CA INDEX NAME)



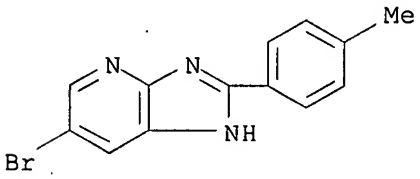
RN 332419-69-9 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(4-chlorophenyl)- (9CI) (CA INDEX NAME)



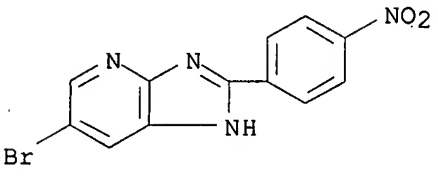
RN 332419-72-4 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(4-methylphenyl)- (9CI) (CA INDEX NAME)



RN 332419-75-7 CAPLUS

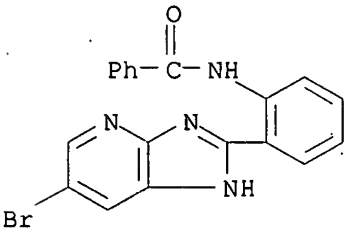
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



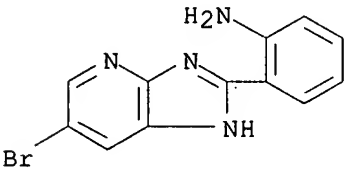
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:580827 CAPLUS
DOCUMENT NUMBER: 131:322578
TITLE: Studies on the condensation of 2,3-pyridinediamines with 2-phenyl-3,1-benzoxazin-4(H)-one
AUTHOR(S): Dubey, P. K.; Kumar, R. Vinod
CORPORATE SOURCE: Department of Chemistry, College of Engineering, J.N.T. University, Hyderabad, 500 072, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1999), 38B(6), 732-734
CODEN: IJSBDB; ISSN: 0376-4699
PUBLISHER: National Institute of Science Communication, CSIR
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reaction of 2,3-pyridinediamine and its 5-bromo analog with 2-phenyl-3,1-benzoxazin-4(H)-one in refluxing acetic acid leads to the formation of 2-(2'-N-benzoylaminophenyl)imidazo[4,5-b]pyridine and 6-bromo-2-(2'-N-benzoylaminophenyl)imidazo[4,5-b]pyridine as products.
IT 248583-17-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (N-benzoylaminophenyl)imidazo[4,5-b]pyridines)
RN 248583-17-7 CAPLUS
CN Benzamide, N-[2-(6-bromo-1H-imidazo[4,5-b]pyridin-2-yl)phenyl]- (9CI) (CA INDEX NAME)



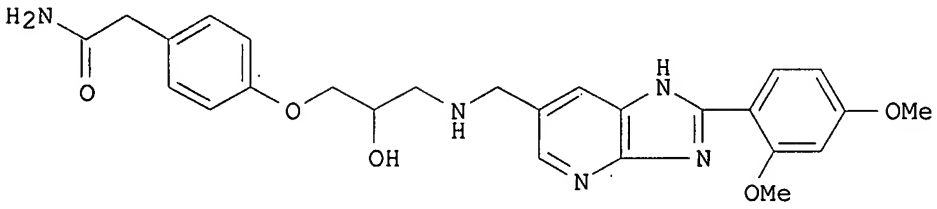
IT 248583-18-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of (N-benzoylaminophenyl)imidazo[4,5-b]pyridines)
RN 248583-18-8 CAPLUS
CN Benzenamine, 2-(6-bromo-1H-imidazo[4,5-b]pyridin-2-yl)- (9CI) (CA INDEX NAME)



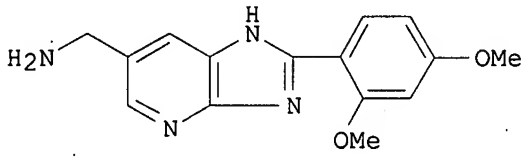
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995:133241 CAPLUS
DOCUMENT NUMBER: 122:55947
TITLE: Synthesis of a 1H-imidazo[4,5-b]pyridine oxypropanolamine derivative as an atenolol-sulmazole hybrid

AUTHOR(S): Barraclough, Paul; Smith, Steven; Gillam, Janet M.; Kettle, Dianne; Nobbs, Malcolm S.
CORPORATE SOURCE: Department Medicinal Chemistry, Wellcome Research Laboratories, Beckenham/Kent, BR3 3BS, UK
SOURCE: Journal of Chemical Research, Synopses (1994), (11), 426
CODEN: JRPSDC; ISSN: 0308-2342
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 122:55947
GI



I

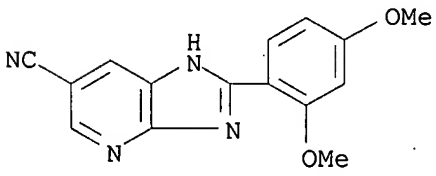


II

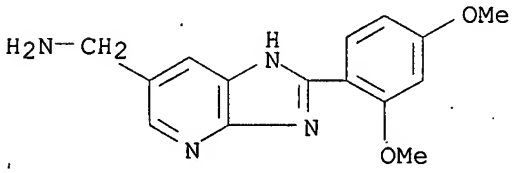
AB A short route to an N-(1H-imidazo[4,5-b]pyridin-6-yl)-substituted derivative I of atenolol is described. Thus, (±)-4-(oxiranylmethoxy)phenylacetamide reacted with imidazopyridine II to give I in 31% yield.

IT 159890-50-3P 159890-51-4P 159890-54-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, inotropic, and adrenoceptor antagonist activity of imidazopyridine oxypropanolamine)

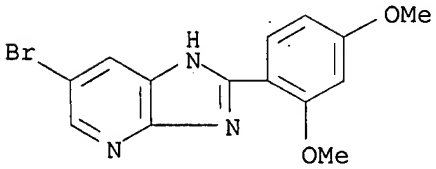
RN 159890-50-3 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine-6-carbonitrile, 2-(2,4-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



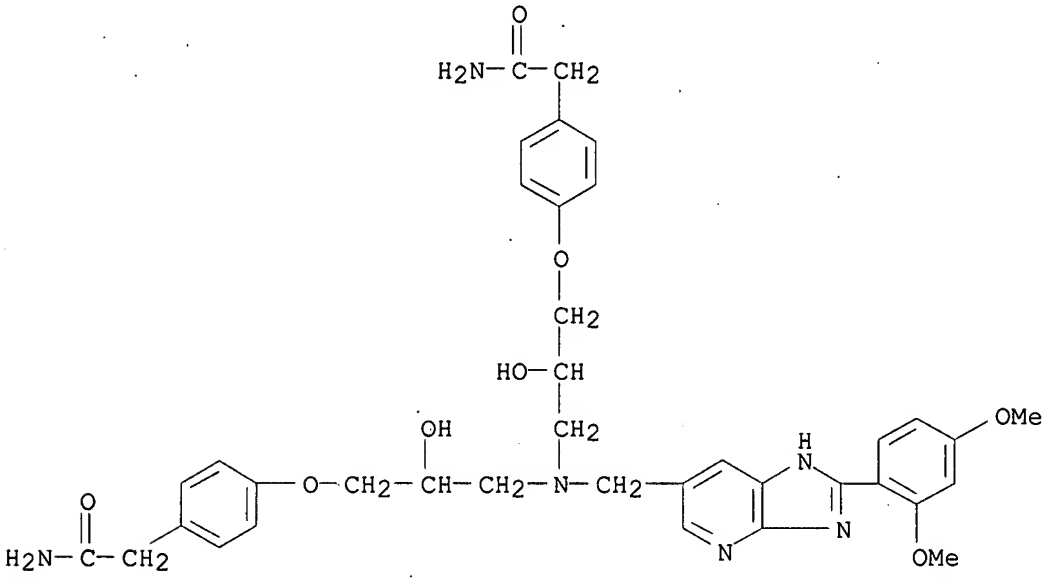
RN 159890-51-4 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine-6-methanamine, 2-(2,4-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



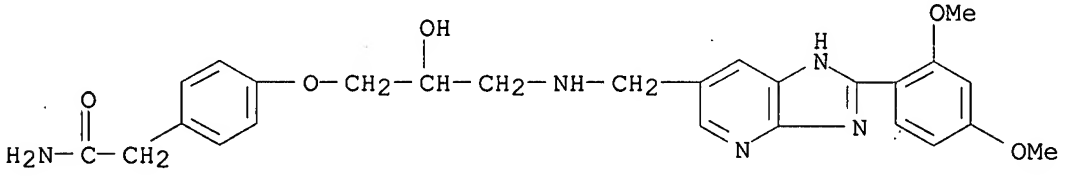
RN 159890-54-7 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(2,4-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



IT 159890-52-5P 159890-53-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, inotropic, and adrenoceptor antagonist activity of imidazopyridine oxypropanolamine)
RN 159890-52-5 CAPLUS
CN Benzeneacetamide, 4,4'-[[[[2-(2,4-dimethoxyphenyl)-1H-imidazo[4,5-b]pyridin-6-yl]methyl]imino]bis[(2-hydroxy-3,1-propanediyl)oxy]]bis- (9CI) (CA INDEX NAME)



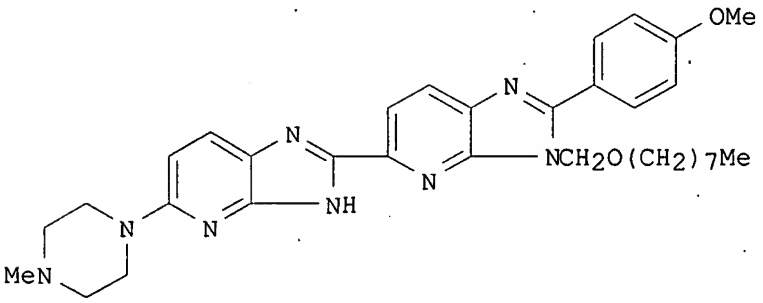
RN 159890-53-6 CAPLUS
CN Benzeneacetamide, 4-[3-[[[2-(2,4-dimethoxyphenyl)-1H-imidazo[4,5-b]pyridin-6-yl]methyl]amino]-2-hydroxypropoxy]- (9CI) (CA INDEX NAME)



L5 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:655716 CAPLUS
DOCUMENT NUMBER: 121:255716
TITLE: Synthesis, DNA binding, sequence preference and

biological evaluation of minor groove-selective N1-alkoxyalkyl-bis-benzimidazoles

AUTHOR(S): Wang, Huiying; Gupta, Rajan; Lown, J. William
CORPORATE SOURCE: Dep. Chem., Univ. Alberta, Edmonton, AB, T6G 2G2, Can.
SOURCE: Anti-Cancer Drug Design (1994), 9(3), 153-80
CODEN: ACDDEA; ISSN: 0266-9536
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

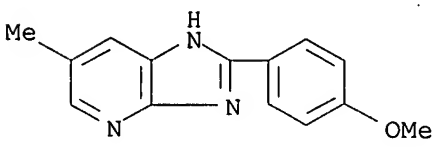


I

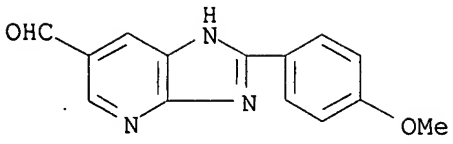
AB The synthesis and characterization of two groups of N1-alkoxyalkylbisbenzimidazoles are described. These groups of agents, that differ in the orientation of the N3-alkoxyalkyl group with respect to the minor groove of the DNA receptor, were designed to examine the structural requirements of mol. recognition of these minor groove-selective anticancer agents. The relative binding of the 12 agents to poly(dA-dT), determined by ethidium displacement in C50 values, ranged from 0.62 to 14.20 μg/mL. Sequence-preferential binding, established by complementary strand MPE·Fe(II) foot printing, was predominantly AT selective, but with significantly enhanced GC recognition in the cases of those ligands bearing an accessible pyridine N directed inwards to the minor groove. Binding site sizes were generally 5 ± 1 base pairs. Cytotoxicities against KB human tumor cells ranged from 0.93 to 46.59 μg/mL. The most potent agent I, which also showed the strongest DNA binding, is of the 'r-inward-directed' type. The stringent structural requirements within the alkoxyalkyl R group for potency suggest addnl. specific interactions or chemical reaction of I within the groove that more than compensate for the increased steric hindrance.

IT 158724-05-1P 158724-21-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis, DNA binding, sequence preference and biol. evaluation of minor groove-selective alkoxyalkylbisbenzimidazoles)

RN 158724-05-1 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 2-(4-methoxyphenyl)-6-methyl- (9CI) (CA INDEX NAME)



RN 158724-21-1 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine-6-carboxaldehyde, 2-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

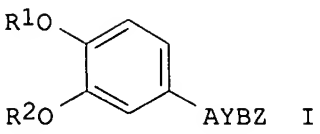


L5 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:655405 CAPLUS
DOCUMENT NUMBER: 121:255405
TITLE: Catechol diethers as selective phosphodiesterase IV inhibitors
INVENTOR(S): Duplantier, Allen J.; Eggler, James F.; Marfat, Anthony; Masamune, Hiroko
PATENT ASSIGNEE(S): Pfizer Inc., USA
SOURCE: PCT Int. Appl., 159 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
WO 9412461	A1	19940609	WO 1993-US10228	19931029	<--
W: AU, BR, CA, CZ, JP, KR, NO, NZ, PL, RU, US					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
CA 2150812	A1	19940609	CA 1993-2150812	19931029	<--
CA 2150812	C	20021224			
CA 2400368	A1	19940609	CA 1993-2400368	19931029	<--
AU 9455396	A	19940622	AU 1994-55396	19931029	<--
AU 673569	B2	19961114			
EP 672031	A1	19950920	EP 1994-900390	19931029	<--
EP 672031	B1	20030312			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE					
JP 08501318	T	19960213	JP 1994-513129	19931029	<--
JP 3100984	B2	20001023			
BR 9307570	A	19990525	BR 1993-7570	19931029	<--
AT 234270	T	20030315	AT 1994-900390	19931029	
PT 672031	T	20030630	PT 1994-900390	19931029	
ES 2192192	T3	20031001	ES 1994-900390	19931029	
IL 107758	A	19971120	IL 1993-107758	19931125	<--
FI 9305379	A	19940603	FI 1993-5379	19931201	<--
ZA 9308978	A	19950601	ZA 1993-8978	19931201	<--
HU 65928	A2	19940728	HU 1993-3423	19931202	<--
CN 1094028	A	19941026	CN 1993-112776	19931202	<--
NO 9502178	A	19950801	NO 1995-2178	19950601	<--
US 5814651	A	19980929	US 1997-872686	19970610	<--

PRIORITY APPLN. INFO.:	US 1992-984408	A	19921202
	CA 1993-2150812	A3	19931029
	WO 1993-US10228	W	19931029
	US 1993-142328	B3	19931126

OTHER SOURCE(S): MARPAT 121:255405
GI

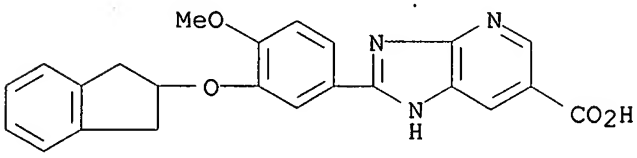


AB The title compds. [I; A, B = direct bond, (un)substituted C1-5 alkylene, (un)substituted alkenyl, (un)substituted phenylene; R1 = Me, Et, CF2H, CF3; R2 = C1-6 alkyl, alkoxyalkyl, phenoxyalkyl, cycloalkyl, etc.; Y = direct bond, O, NR6, S; R6 = H, C1-4 alkyl; Z = (un)substituted monocyclic or bicyclic heterocyclyl], which are inhibitors of phosphodiesterase IV (no data), useful in the treatment of inflammatory conditions (no data), etc., are prepared Thus, 3-(carbomethoxy)benzyltriphenylphosphonium bromide was reacted with 3-cyclopentyloxy-4-methoxybenzaldehyde in the presence of BuLi, producing Me 3-[2-[3-(cyclopentyloxy)-4-methoxyphenyl]ethenyl]benzoate (36% cis-isomer, 36% trans-isomer).

IT 158428-72-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and phosphodiesterase IV inhibitory activity of)

RN 158428-72-9 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine-6-carboxylic acid, 2-[3-[(2,3-dihydro-1H-inden-2-yl)oxy]-4-methoxyphenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1992:571309 CAPLUS

DOCUMENT NUMBER: 117:171309

TITLE: Inotropic 2-arylimidazo[1,2-a]pyrimidines

AUTHOR(S): Barraclough, P.; Black, J. W.; Cambridge, D.; Capon, E.; Cox, M. R.; Firmin, D.; Gerskowitch, V. P.; Giles, H.; Glen, R. C.; et al.

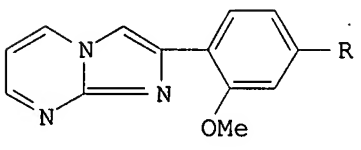
CORPORATE SOURCE: Dep. Med. Chem., Wellcome Res. Lab., Beckenham/Kent, BR3 3BS, UK

SOURCE: European Journal of Medicinal Chemistry (1992), 27(3), 207-17
CODEN: EJMCA5; ISSN: 0223-5234

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



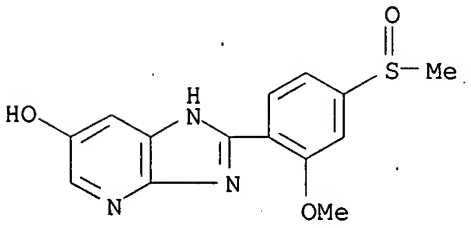
I

AB A series of 2-arylimidazo[1,2-a]pyrimidines were prepared and evaluated for inotropic activity. Thus, 2-aminopyrimidine was treated with 2,4-(MeO)2C6H3COCH2Br to give 52% I (R = MeO). Three of these

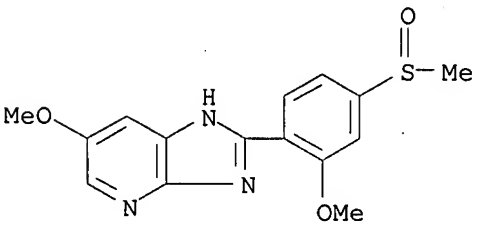
heterocycles I (R = MeO, MeS, MeSO3) displayed more potent inotropic effects in vitro than isomazole. The in vivo inotropic potencies of I (R = MeSO3, NH2CO) were similar to those of isomazole and sulmazole resp. The effects of some 'A' and 'C' ring substituents on the inotropic activities of the imidazo[1,2-a]pyrimidines were different from those on the imidazopyridines. Nevertheless the inotropic potencies of several imidazo[1,2-a]pyrimidines were closed to those of their 1H-imidazo[4,5-b]pyridine isomers than to those of the corresponding isomazole analogs. Structure-activity relationships are discussed in detail.

IT 77439-55-5 127356-02-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(inotropic activity of)

RN 77439-55-5 CAPLUS
CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)

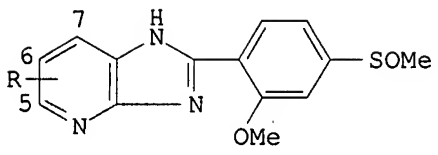


RN 127356-02-9 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-methoxy-2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)

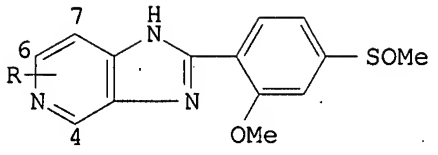


L5 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:571408 CAPLUS
DOCUMENT NUMBER: 113:171408
TITLE: Proton and carbon-13 NMR studies of the protonation of isomeric methoxysulmazole analogs
AUTHOR(S): Lindon, J. C.; Williams, J. M.; Barraclough, P.; King, W. R.; Nobbs, M. S.
CORPORATE SOURCE: Dep. Phys. Sci., Wellcome Res. Lab., Beckenham/Kent, BR3 3BS, UK
SOURCE: Magnetic Resonance in Chemistry (1990), 28(7), 573-5
CODEN: MRCHEG; ISSN: 0749-1581
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



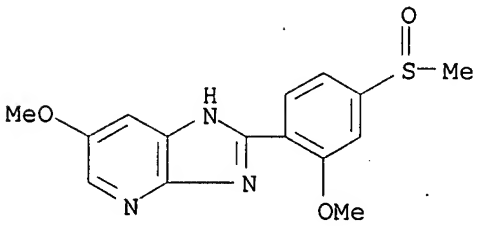
II

AB The protonation sites of title compds. I (R = 5-, 6-, 7-MeO) and II (R = 4-, 6-, 7-MeO) were determined by 13C and 1H NMR. All II and I (R = 7-MeO) were protonated on the pyridine N. I (R = 5- and 6-MeO) were protonated on the imidazo N.

IT 129822-10-2
RL: PRP (Properties)
(NMR of carbon-13 and hydrogen in)

RN 129822-10-2 CAPLUS

CN Hydrochloric acid-d, compd. with 6-methoxy-2-[2-methoxy-4-(methylsulfinyl)phenyl]-1H-imidazo[4,5-b]pyridine (1:1) (9CI) (CA INDEX NAME)

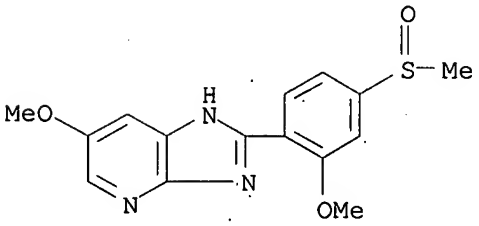


● DCl

IT 127356-02-9
RL: PRP (Properties)
(protonation site of)

RN 127356-02-9 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine, 6-methoxy-2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1990:459029 CAPLUS

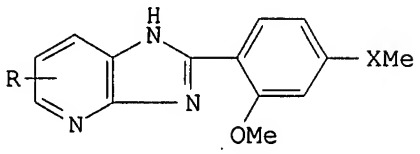
DOCUMENT NUMBER: 113:59029

TITLE: Inotropic 'A' ring substituted sulmazole and isomazole analogs

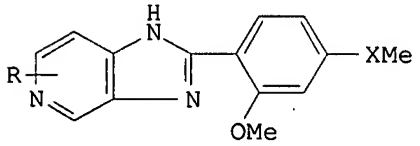
AUTHOR(S): Barraclough, Paul; Black, James W.; Cambridge, David; Collard, David; Firmin, David; Gerskowitch, V. Paul; Glen, Robert C.; Giles, Heather; Hill, Alan P.; et al.

CORPORATE SOURCE: Dep. Med. Chem., Wellcome Res. Lab., Beckenham/Kent, BR3 3BS, UK

SOURCE: Journal of Medicinal Chemistry (1990), 33(8), 2231-9
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:59029
GI



I

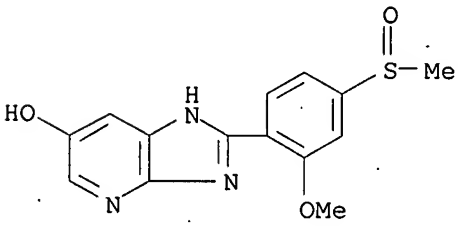


II

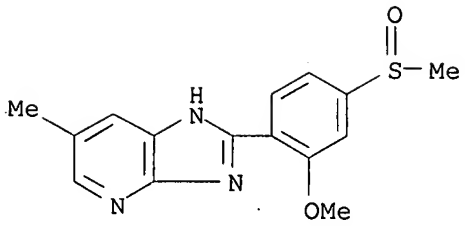
AB A series of "A" ring substituted sulmazole I [R = 4-, 5-, 6-MeO, 5-NO2, 5-Cl, 5-Me, 5-Ac; X = S, S(O), O] and isomazole analogs II [R = 2-, 5-, 6-MeO, 5-NH2, 5-NO2; X = S, S(O), O] were prepared and evaluated as inotropic agents. Thus, 5-methoxy-2,3-pyridinediamine was cyclized with 2-methoxy-4-(methylthio)benzoic acid to give I (R = 5-MeO, X = S), which was oxidized to give I [R = 5-MeO, X = S(O)]. PKA's, protonation sites, and log P values were measured for selected compds. and their electronic properties were calculated No simple correlation between inotropic activity and pKA, protonation site, or log P value was observed However, in vitro inotropism did correlate with the calculated charge d. of the "B" ring imidazo nitrogen atom. The 6-position of sulmazole appeared to be the most tolerant toward substituents, the 6-amino derivative I [R = 6-NH, X = S(O)] being a more potent inotrope than sulmazole itself. 4-Methoxyisomazole had comparable in vivo inotropic properties to those of isomazole.

IT 77439-55-5P 107238-22-2P 107238-23-3P
127356-02-9P 127356-06-3P 127356-44-9P
127382-94-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and inotropic activity of)

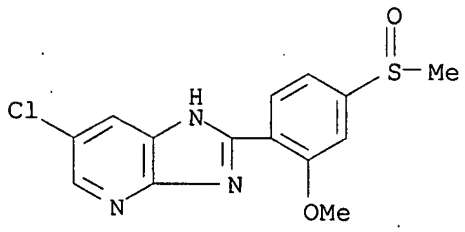
RN 77439-55-5 CAPLUS
CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



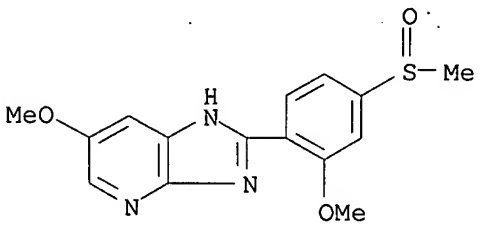
RN 107238-22-2 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 2-[2-methoxy-4-(methylsulfinyl)phenyl]-6-methyl- (9CI) (CA INDEX NAME)



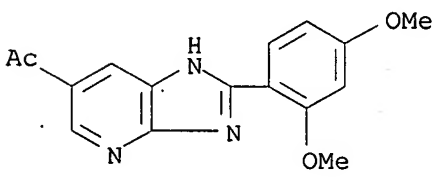
RN 107238-23-3 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-chloro-2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



RN 127356-02-9 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-methoxy-2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)

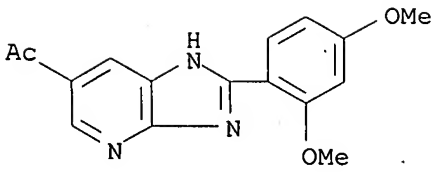


RN 127356-06-3 CAPLUS
CN Ethanone, 1-[2-(2,4-dimethoxyphenyl)-1H-imidazo[4,5-b]pyridin-6-yl]-, monohydrochloride (9CI) (CA INDEX NAME)

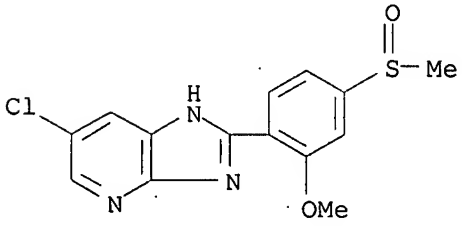


● HCl

RN 127356-44-9 CAPLUS
CN Ethanone, 1-[2-(2,4-dimethoxyphenyl)-1H-imidazo[4,5-b]pyridin-6-yl]- (9CI) (CA INDEX NAME)

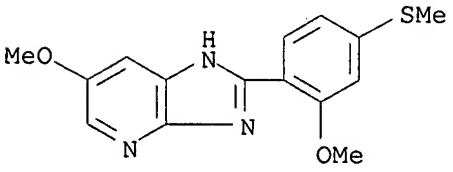


RN 127382-94-9 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-chloro-2-[2-methoxy-4-(methylsulfinyl)phenyl]-, hydrochloride (2:1) (9CI) (CA INDEX NAME)

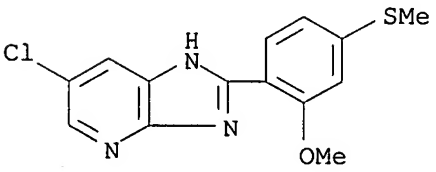


●1/2 HCl

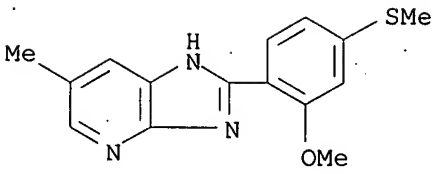
IT 127356-19-8P 127356-24-5P 127356-25-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)
RN 127356-19-8 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-methoxy-2-[2-methoxy-4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



RN 127356-24-5 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-chloro-2-[2-methoxy-4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



RN 127356-25-6 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 2-[2-methoxy-4-(methylthio)phenyl]-6-methyl- (9CI) (CA INDEX NAME)



=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	56.59	228.90

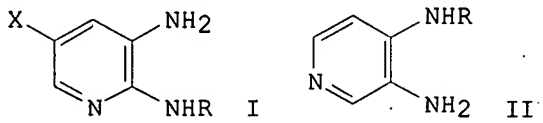
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.80	-7.80

FILE 'STNGUIDE' ENTERED AT 06:36:45 ON 30 JUL 2007

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 27, 2007 (20070727/UP).

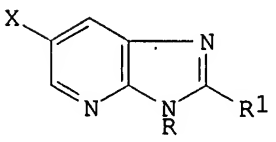
=> d ibib abs hitstr 11-22
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

L5 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988:112331 CAPLUS
DOCUMENT NUMBER: 108:112331
TITLE: Synthesis of 2-aryl-substituted imidazo[4,5-b]pyridines and imidazo[4,5-c]pyridines
AUTHOR(S): Yutilov, Yu. M.; Shcherbina, L. I.
CORPORATE SOURCE: Inst. Fiz.-Org. Khim. Uglekhim., Donetsk, 340114, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1987), (5), 639-45
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 108:112331
GI

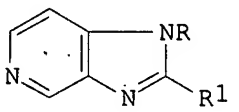


I

II



III



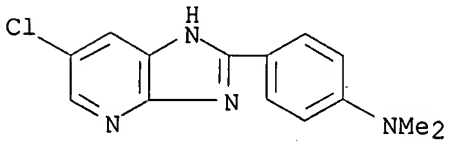
IV

AB Heating diaminopyridines I (R = H, Me; X = H, Cl, Br) or II (R = H, Me) with R1CHO [R1 = Ph, 4-ClC6H4, 4-FC6H4, 4-HOC6H4, 4-MeOC6H4, 4-Me2NC6H4,

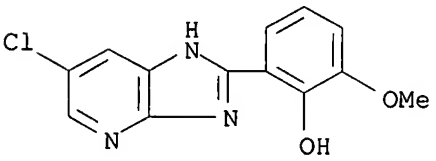
2,5-(MeO)2C6H3, 2-thienyl, 3-pyridyl, etc.] and S gave 70-93% title compds. III (same R, R1, X) or IV (same R, R1). Intramol. cyclization of I (X = H, R = CH2Ph) or II (R = CH2Ph) by heating with S gave 48% III (X = H, R = H, R1 = Ph) or 60% IV (R = H, R1 = Ph), resp.

IT 113311-85-6P 113311-86-7P 113311-87-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

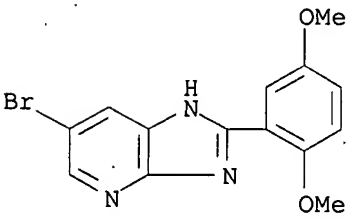
RN 113311-85-6 CAPLUS
CN Benzenamine, 4-(6-chloro-1H-imidazo[4,5-b]pyridin-2-yl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 113311-86-7 CAPLUS
CN Phenol, 2-(6-chloro-1H-imidazo[4,5-b]pyridin-2-yl)-6-methoxy- (9CI) (CA INDEX NAME)



RN 113311-87-8 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(2,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

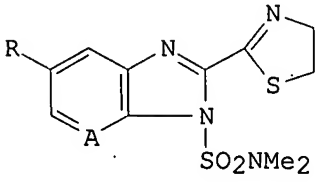
ACCESSION NUMBER:	1987:176382 CAPLUS
DOCUMENT NUMBER:	106:176382
TITLE:	2-(Thiazole-2-yl)imidazo[4,5-b]pyridine analogs
INVENTOR(S):	Nasu, Rikuo; Komyoji, Terumasa; Nakajima, Toshio; Nishimura, Shigeyuki; Ito, Keiichiro; Suzuki, Kazumi; Yoshimura, Hideji
PATENT ASSIGNEE(S):	Ishihara Sangyo Kaisha, Ltd., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 7 pp. CODEN: JKXXAF
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

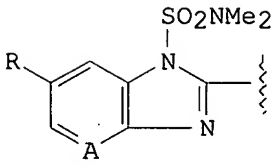
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 62022782	A	19870130	JP 1985-162292	19850723 <--
PRIORITY APPLN. INFO.:			JP 1985-162292	19850723

GI



I



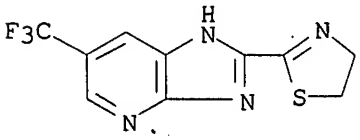
II

AB The title compds. (I or II; A = CH, N; R = H, Cl, Br, CF3), useful as plant fungicides, were prepared MeONa (28%) in MeOH and 2-(trichloromethyl)-6-(trifluoromethyl)imidazo[4,5-b]pyridine were successively added to a solution of HSCH2CH2NH2.HCl in MeOH to give, after 2 h at room temperature, 2-(thiazol-2-yl)-6-(trifluoromethyl)imidazo[4,5-b]pyridine whose reaction with Me2NSO2Cl in MeCN containing K2CO3 at b. temperature gave a 1:1 mixture of I (R = CF3, A = N) and its isomer II. This at 500 ppm inhibited by 100% the growth of Pseudopersonospora Cubensis in cucumbers.

IT 107867-50-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and sulfamoylation of)

RN 107867-50-5 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine, 2-(4,5-dihydro-2-thiazolyl)-6-(trifluoromethyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1987:156466 CAPLUS
DOCUMENT NUMBER:	106:156466
TITLE:	Preparation of 2-arylimidazole derivatives as cardiovasclar agents
INVENTOR(S):	Mueller, Erich; Hauel, Norbert; Noll, Klaus; Narr, Berthold; Heider, Joachim; Psiorz, Manfred; Bomhard, Andreas; Meel, Van Jacques; Diederen, Willi
PATENT ASSIGNEE(S):	Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.
SOURCE:	Ger. Offen., 29 pp. CODEN: GWXXBX
DOCUMENT TYPE:	Patent
LANGUAGE:	German
FAMILY ACC. NUM. COUNT:	1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3522230	A1	19870102	DE 1985-3522230	19850621 <--
EP 209707	A2	19870128	EP 1986-107969	19860611 <--
EP 209707	A3	19890201		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
FI 8602623	A	19861222	FI 1986-2623	19860619 <--
DK 8602909	A	19861222	DK 1986-2909	19860620 <--
NO 8602477	A	19861222	NO 1986-2477	19860620 <--

AU 8658932	A	19861224	AU 1986-58932		19860620 <--
JP 62000471	A	19870106	JP 1986-144658		19860620 <--
HU 42452	A2	19870728	HU 1986-2615		19860620 <--
ES 556338	A1	19871201	ES 1986-556338		19860620 <--
ZA 8604602	A	19880224	ZA 1986-4602		19860620 <--
ES 557240	A1	19870516	ES 1986-557240		19861204 <--
ES 557241	A1	19870516	ES 1986-557241		19861204 <--

PRIORITY APPLN. INFO.: DE 1985-3522230 A 19850621

OTHER SOURCE(S): CASREACT 106:156466; MARPAT 106:156466

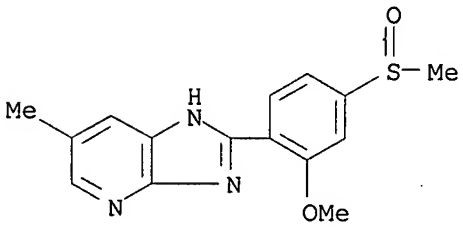
GI For diagram(s), see printed CA Issue.

AB The title compds. [I; R1 = H, alkyl; R2 = (substituted) Ph, naphthyl; A = fused (substituted) naphtho, benzo, pyrido, pyrimido ring] were prepared as cardiovascular agents. 2,4-MeO(MeSO2NH)C6H3CO2H cyclocondensed with 3,4-(H2N)2C6H3CN to give phenylbenzimidazolecarbonitrile II. In cats 0.6 mg II/kg i.v. reduced blood pressure 40 mm Hg.

IT 107238-22-2 107238-23-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(imination of)

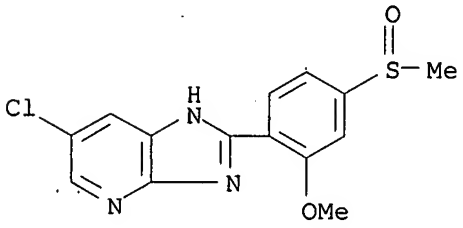
RN 107238-22-2 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine, 2-[2-methoxy-4-(methylsulfinyl)phenyl]-6-methyl- (9CI) (CA INDEX NAME)



RN 107238-23-3 CAPLUS

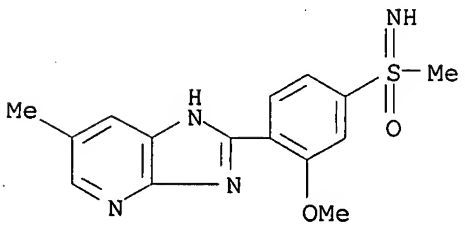
CN 1H-Imidazo[4,5-b]pyridine, 6-chloro-2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



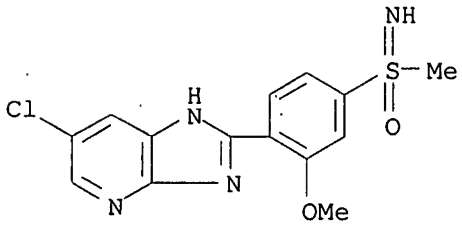
IT 107284-99-1P 107285-00-7P 107285-13-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as antihypertensive and antithrombotic)

RN 107284-99-1 CAPLUS

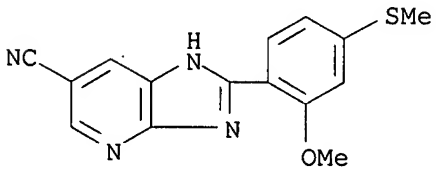
CN Sulfoximine, S-[3-methoxy-4-(6-methyl-1H-imidazo[4,5-b]pyridin-2-yl)phenyl]-S-methyl- (9CI) (CA INDEX NAME)



RN 107285-00-7 CAPLUS
CN Sulfoximine, S-[4-(6-chloro-1H-imidazo[4,5-b]pyridin-2-yl)-3-methoxyphenyl]-S-methyl- (9CI) (CA INDEX NAME)



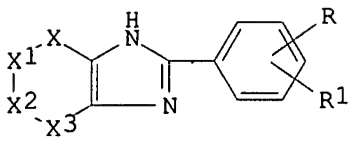
RN 107285-13-2 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine-6-carbonitrile, 2-[2-methoxy-4-(methylthio)phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:437476 CAPLUS
DOCUMENT NUMBER: 103:37476
TITLE: Imidazoles and a pharmaceutical containing them
INVENTOR(S): Austel, Volkhard; Heider, Joachim; Hauel, Norbert; Reiffen, Manfred; Van Meel, Jakobus C. A.; Diederen, Willi
PATENT ASSIGNEE(S): Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 33 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3324115	A1	19850117	DE 1983-3324115	19830705 <--
EP 130461	A2	19850109	EP 1984-107002	19840619 <--
EP 130461	A3	19870506		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4670438	A	19870602	US 1984-623718	19840622 <--
DK 8403264	A	19850106	DK 1984-3264	19840703 <--
FI 8402666	A	19850106	FI 1984-2666	19840703 <--
NO 8402684	A	19850107	NO 1984-2684	19840703 <--
DD 224851	A5	19850717	DD 1984-264889	19840703 <--
JP 60036486	A	19850225	JP 1984-137395	19840704 <--
HU 34475	A2	19850328	HU 1984-2616	19840704 <--
HU 194878	B	19880328		
ES 533995	A1	19850616	ES 1984-533995	19840704 <--
ZA 8405103	A	19860326	ZA 1984-5103	19840704 <--
AU 8430323	A	19850110	AU 1984-30323	19840705 <--
ES 541660	A1	19851216	ES 1985-541660	19850328 <--
ES 541661	A1	19851216	ES 1985-541661	19850328 <--
ES 541662	A1	19851216	ES 1985-541662	19850328 <--

US 4766130 A 19880823 US 1987-7530 19870128 <--
PRIORITY APPLN. INFO.: DE 1983-3324115 A 19830705
US 1984-623718 A3 19840622
OTHER SOURCE(S): CASREACT 103:37476; MARPAT 103:37476
GI



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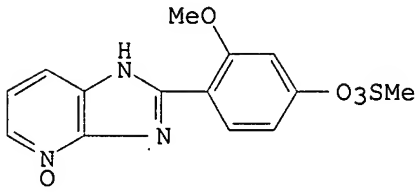

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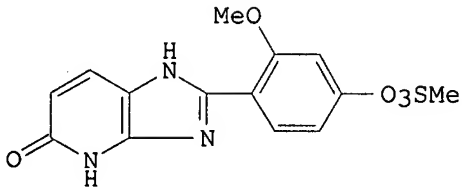


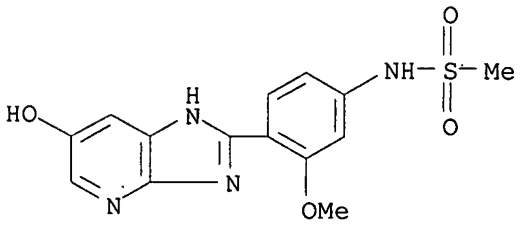
III

AB Fused-ring imidazoles I (R = R2O, R3SO2NR4; R1 = alkoxy, alkenyloxy, alkynyloxy, dialkylamino; R2 = H, alkynyl, R3SO2, R4O2CCH2, NCCH2; R3 = alkyl; R4 = H, alkyl; X-X3 = N, NH, CH, CO, COH, CO3SR3) were prepared Thus, 4-(1H-imidazo[4,5-b]pyridin-2-yl)-3-methoxyphenyl methanesulfonate was oxidized by H2O2 in F3CCO2H to give 63% 4-oxide (II). This was rearranged by refluxing in Ac2O to give 36% imidazopyridinone III. In cats 2 mg III i.v. reduced blood pressure 50 mm Hg and increased the heart contractility parameter 158%.

IT 97050-47-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antihypertensive and inotropic activity of)

RN 97050-47-0 CAPLUS

CN Methanesulfonamide, N-[4-(6-hydroxy-1H-imidazo[4,5-b]pyridin-2-yl)-3-methoxyphenyl]- (9CI) (CA INDEX NAME)

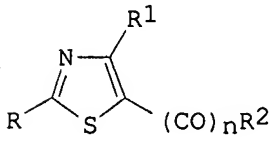


L5 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:45931 CAPLUS
DOCUMENT NUMBER: 102:45931
TITLE: Thiazole derivatives, and pharmaceutical compositions comprising them
INVENTOR(S): Takaya, Takao; Takasugi, Hisashi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd. , Japan
SOURCE: Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English

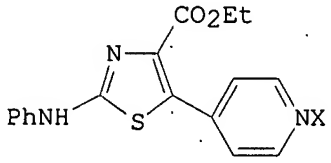
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 117082	A2	19840829	EP 1984-300575	19840130 <--
EP 117082	A3	19870415		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4649146	A	19870310	US 1984-574517	19840127 <--
DK 8400410	A	19840801	DK 1984-410	19840130 <--
ES 529282	A1	19850416	ES 1984-529282	19840130 <--
JP 59193878	A	19841102	JP 1984-16887	19840131 <--
JP 05079677	B	19931104		
ES 535978	A1	19851116	ES 1984-535978	19840917 <--
US 4735957	A	19880405	US 1986-932097	19861118 <--
PRIORITY APPLN. INFO.:			GB 1983-2591 A	19830131
			GB 1983-25684 A	19830926
			US 1984-574517 A3	19840127

OTHER SOURCE(S): MARPAT 102:45931
GI



I



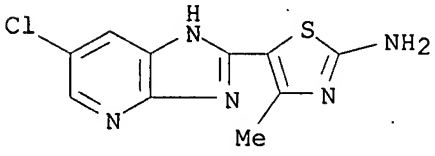
II

AB Blood pressure regulating, cardiotonic, and antiulcer thiazoles I [R = H, OH, alkyl, pyridyl, (un)substituted amino, guanidino; R1 = alkyl, carboxy, carboxy derivs., CH2OH, CH:NOH, halomethyl, alkylthiomethyl, (un)substituted alkenyl; R2 = alkyl, haloalkyl, (un)substituted N-containing heterocyclyl; n = 0, 1] were prepared (about 130 compds.). Thus R3CH2COCO2Et (R3 = pyridine-N-oxide-4-yl) was chlorinated and treated with PhNHCSNH2 to give the cyclocondensation product, thiazole II (X = O). Treating II (X = O) with PCl3 gave the deoxygenated product II (X = electron pair) (III). At 1 mg/kg i.v. in Heidenhain pouch dogs, III gave 95.1% inhibition of acid output.

IT 94284-91-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and cardiotonic activity of)

RN 94284-91-0 CAPLUS

CN 2-Thiazolamine, 5-(6-chloro-1H-imidazo[4,5-b]pyridin-2-yl)-4-methyl- (9CI) (CA INDEX NAME)

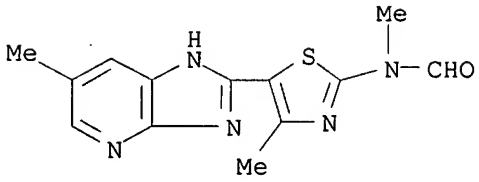


IT 94273-35-5P 94273-36-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with hydrogen chloride)

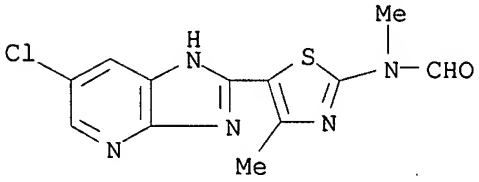
RN 94273-35-5 CAPLUS

CN Formamide, N-methyl-N-[4-methyl-5-(6-methyl-1H-imidazo[4,5-b]pyridin-2-yl)-

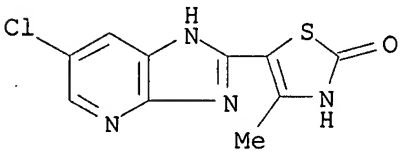
2-thiazolyl]- (9CI) (CA INDEX NAME)



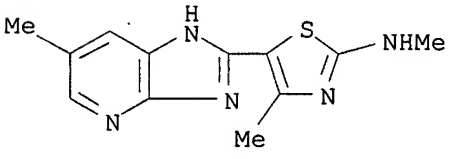
RN 94273-36-6 CAPLUS
CN Formamide, N-[5-(6-chloro-1H-imidazo[4,5-b]pyridin-2-yl)-4-methyl-2-thiazolyl]-N-methyl- (9CI) (CA INDEX NAME)



IT 94273-43-5P 94273-86-6P 94273-87-7P
94284-94-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 94273-43-5 CAPLUS
CN 2(3H)-Thiazolone, 5-(6-chloro-1H-imidazo[4,5-b]pyridin-2-yl)-4-methyl- (9CI) (CA INDEX NAME)

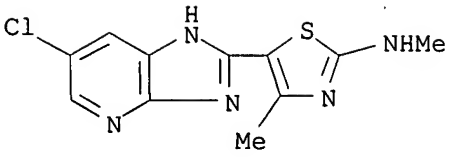


RN 94273-86-6 CAPLUS
CN 2-Thiazolamine, N,4-dimethyl-5-(6-methyl-1H-imidazo[4,5-b]pyridin-2-yl)-, hydrochloride (9CI) (CA INDEX NAME)

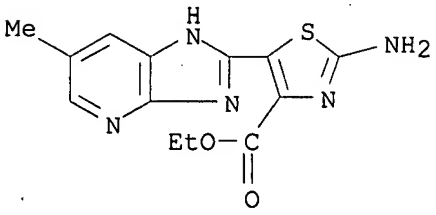


●x HCl

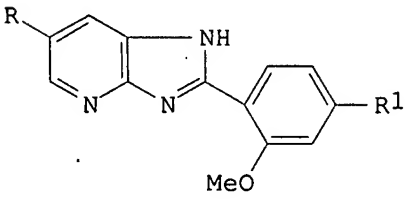
RN 94273-87-7 CAPLUS
CN 2-Thiazolamine, 5-(6-chloro-1H-imidazo[4,5-b]pyridin-2-yl)-N,4-dimethyl- (9CI) (CA INDEX NAME)



RN 94284-94-3 CAPLUS
CN 4-Thiazolecarboxylic acid, 2-amino-5-(6-methyl-1H-imidazo[4,5-b]pyridin-2-yl)-, ethyl ester (9CI) (CA INDEX NAME)



L5 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:119121 CAPLUS
DOCUMENT NUMBER: 98:119121
TITLE: Nonlinear pharmacokinetics of the new positive inotropic agent sulmazole in the dog
AUTHOR(S): Garrett, Edward R.; Roth, Willy
CORPORATE SOURCE: Coll. Pharm., Univ. Florida, Gainesville, FL, 32610, USA
SOURCE: Journal of Pharmaceutical Sciences (1983), 72(2), 105-16
CODEN: JPMSAE; ISSN: 0022-3549
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I, R=H, R^1=S(O)Me
II, R=H, R^1=SO_2Me
III, R=OH, R^1=S(O)Me

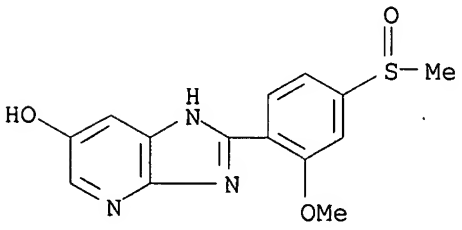
AB sulmazole (I) [73384-60-8] pharmacokinetics were monitored in plasma and urine of dogs by a specific, sensitive reverse-phase high-performance liquid chromatog. system with fluorimetric detection. Sulmazole disappeared and the sulfonyl metabolite (II) [77414-24-5] appeared in plasma by zero-order rates for most of their time courses in the 2-15-mg/kg range with a 75% conversion to II. Pure Michaelis-Menten pharmacokinetics were not applicable, and the vmax value increased with increasing dose. Pharmacokinetics of sulmazole and II at 0.7 mg/kg i.v. doses were characterized by a 1st-order 2-compartment body model. The hydroxymetabolite (III) [77439-55-5] at 0.7 and 2 mg/kg i.v. doses showed no dose-dependent pharmacokinetics. The unchanged drug and its major metabolite, II, were only slightly excreted renally (0.5-2%). Their renal clearance showed urine flow rate dependencies. The plasma

protein bindings were; sulmazole, 40.8%; II, 54%; III, 43%, and they were concentration-independent.

IT 77439-55-5
RL: BIOL (Biological study)
(sulmazole metabolite, pharmacokinetics of)

RN 77439-55-5 CAPLUS

CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1982:472362 CAPLUS

DOCUMENT NUMBER: 97:72362

TITLE: 6-Hydroxy-2-phenylimidazo[4,5-b]pyridines and medicaments containing them

INVENTOR(S): Diederen, Willi; Prox, Axel; Reuter, Albert; Roth, Willy; Schmid, Jochen

PATENT ASSIGNEE(S): Thomae, Dr. Karl, G.m.b.H., Fed. Rep. Ger.

SOURCE: Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

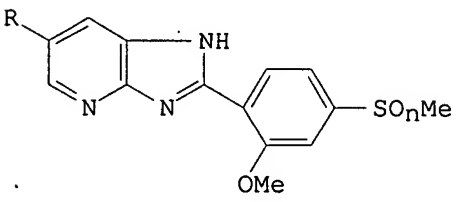
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 49407	A1	19820414	EP 1981-107423	19810918 <--
EP 49407	B1	19850508		
R: BE, CH, DE, FR, IT, LU, NL, SE				
DE 3037464	A1	19820519	DE 1980-3037464	19801003 <--
US 4353909	A	19821012	US 1981-305159	19810924 <--
AU 8176004	A	19820408	AU 1981-76004	19811002 <--
JP 57091988	A	19820608	JP 1981-157366	19811002 <--
ZA 8106826	A	19830629	ZA 1981-6826	19811002 <--
IL 63982	A	19840831	IL 1981-63982	19811002 <--

PRIORITY APPLN. INFO.: DE 1980-3037464 A 19801003

OTHER SOURCE(S): CASREACT 97:72362; MARPAT 97:72362

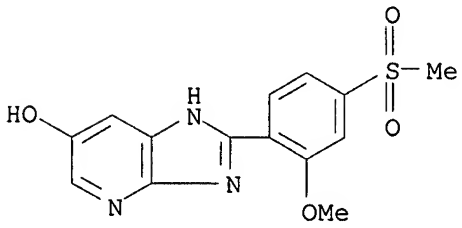
GI



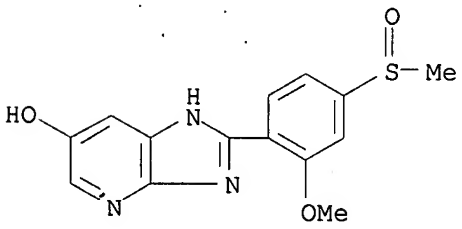
I

AB The title compds. I (R = OH, n = 1, 2) were prepared Thus, I (R = H, n = 1) was oxidized with 3% H2O2 to give I (R = OH, n = 1, 2) which had pos. inotropic activities at 0.1 mg/kg i.v. in cats.

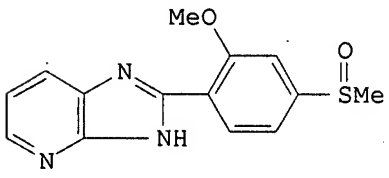
IT 77439-54-4P 77439-55-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and inotropic activity of)
RN 77439-54-4 CAPLUS
CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[2-methoxy-4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



RN 77439-55-5 CAPLUS
CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1981:185334 CAPLUS
DOCUMENT NUMBER: 94:185334
TITLE: AR-L 115 BS, comparison of human metabolite pattern and biotransformation with those of other species
AUTHOR(S): Roth, W.; Prox, A.; Reuter, A.; Schmid, J.; Zimmer, A.; Zipp, H.
CORPORATE SOURCE: Forschungslab., Dr. Karl Thomae G.m.b.H., Biberach an der Riss, Fed. Rep. Ger.
SOURCE: Arzneimittel-Forschung (1981), 31(1A), 232-5
CODEN: ARZNAD; ISSN: 0004-4172
DOCUMENT TYPE: Journal
LANGUAGE: German
GI



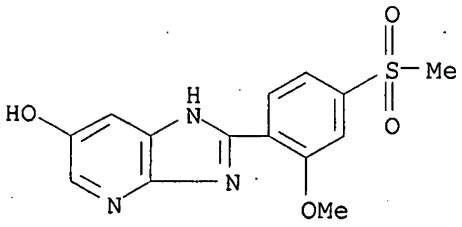
I

AB The metabolic pattern of orally administered Vardax (AR-L 115 BS) (I) [73384-60-8] differed among various exptl. animals and man; only the

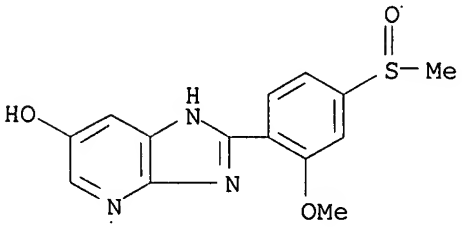
baboon had a metabolic pattern for I similar to that in man. The concentration of 2 nonpolar urinary metabolites of I, i.e., AR-L 114 BS [77414-24-5] (the corresponding sulfone) and AR-L 113 BS [77414-25-6] (the corresponding sulfide), was greater in the animals than in man. The main metabolic pathway for I was via an oxidative pyridine-ring cleavage leading to the formation of N-acetylated 6-aminoimidazoles. Hydroxylation in the 6-position of the pyridoimidazole moiety was another metabolic reaction. As with I, sulfones and sulfides of the N-acetylated and 6-hydroxylated metabolites were detected.

IT 77439-54-4 77439-55-5
RL: FORM (Formation, nonpreparative)
(formation of, as Vardax metabolite)

RN 77439-54-4 CAPLUS
CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[2-methoxy-4-(methylsulfonyl)phenyl]- (9CI) (CA INDEX NAME)



RN 77439-55-5 CAPLUS
CN 1H-Imidazo[4,5-b]pyridin-6-ol, 2-[2-methoxy-4-(methylsulfinyl)phenyl]- (9CI) (CA INDEX NAME)



L5 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1981:120473 CAPLUS
DOCUMENT NUMBER: 94:120473
TITLE: Heterocyclization via selective elimination: reaction of 2,3-diaminopyridine with acyclic ketones under thermal conditions
AUTHOR(S): Dubey, Pramod Kumar; Ratnam, C. V.
CORPORATE SOURCE: Dep. Chem., Osmania Univ., Hyderabad, 500 007, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1980), 19B(10), 863-5
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 94:120473

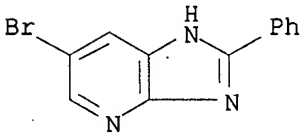
AB Reactions of 2,3-diaminopyridine and its 5-bromo analog with 3 sym. and 9 unsym. acyclic ketones are examined under thermal conditions. The reactions gave 2-substituted-1H-imidazo[4,5-b]pyridines by the elimination of one of the C(2)-substituents from the probable, though unisolated, 2,2-disubstituted-2,3-dihydro-1H-imidazo[4,5-b]pyridine derivative intermediates. Elimination of one of the groups in the case of sym. ketones and preferentially of the PhCH2 group in the case of PhCH2Ac is

observed PhCH2R (R = Me, Et, Pr) gave 2-phenylimidazopyridine by the selective loss of the alkyl group. Elimination of the branched alkyl group is observed in the reactions involving AcCMe3 and AcCHMe2; the preferential elimination of Me group is observed in the case of MeCOR (R = n-alkyl). The reaction mechanism is discussed.

IT 65147-89-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 65147-89-9 CAPLUS

CN 3H-Imidazo[4,5-b]pyridine, 6-bromo-2-phenyl- (CA INDEX NAME)



L5 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1978:44881 CAPLUS

DOCUMENT NUMBER: 88:44881

TITLE: Antitumor activity of eighty-four synthesized N-heteroaromatic compounds

AUTHOR(S): Hayashi, Eisaku; Higashino, Takeo; Iijima, Chihoko; Oishi, Etsuo; Makino, Hirokazu; Irie, Toshio; Yamamoto, Fusako; Yokoyama, Yoko; Iwai, Yoshihisa; et al.

CORPORATE SOURCE: Shizuoka Coll. Pharm., Shizuoka, Japan

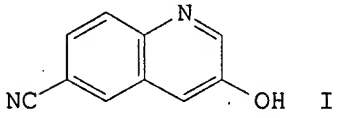
SOURCE: Yakugaku Zasshi (1977), 97(9), 1022-33
CODEN: YKKZAJ; ISSN: 0031-6903

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

OTHER SOURCE(S): CASREACT 88:44881

GI



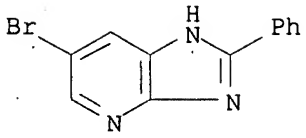
I

AB Eighty-four compds. (mainly N-heteroarom. compds.) were synthesized and their antitumor activity was examined Four quinoline derivs. had some antitumor effect on the solid type of Ehrlich carcinoma. These compds. were, 3-hydroxy-6-quinolinecarbonitrile (I) [63124-12-9], 6-bromoquinaldic acid 1-oxide [65147-79-7], 8-(hydroxyimino)-5,6,7,8-tetrahydroquinoline [58509-59-4] and 1-(hydroxyimino)-1,2,3,4-tetrahydroacridine [34043-68-0]. No other derivs. were found effective.

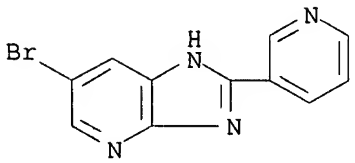
IT 65147-89-9P 65147-90-2P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antitumor activity of)

RN 65147-89-9 CAPLUS

CN 3H-Imidazo[4,5-b]pyridine, 6-bromo-2-phenyl- (CA INDEX NAME)



RN 65147-90-2 CAPLUS
CN 1H-Imidazo[4,5-b]pyridine, 6-bromo-2-(3-pyridinyl)- (9CI) (CA INDEX NAME)



L5 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:4251 CAPLUS
DOCUMENT NUMBER: 82:4251
TITLE: Imidazo[4,5-b]pyridines
INVENTOR(S): Kutter, Eberhard; Austel, Volkhard; Diederen, Willi
PATENT ASSIGNEE(S): Thomae, Dr. Karl., G.m.b.H.
SOURCE: Ger. Offen., 62 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2305339	A1	19740808	DE 1973-2305339	19730203 <--
DE 2305339	B2	19790823		
DE 2305339	C3	19800508		
FI 58126	B	19800829	FI 1973-3989	19731227 <--
FI 58126	C	19801210		
AT 7400164	A	19760215	AT 1974-164	19740110 <--
AT 332873	B	19761025		
ES 422450	A1	19760501	ES 1974-422450	19740119 <--
CS 200169	B2	19800829	CS 1974-443	19740123 <--
SU 563917	A3	19770630	SU 1974-1990335	19740129 <--
NL 7401254	A	19740806	NL 1974-1254	19740130 <--
NL 173645	B	19830916		
NL 173645	C	19840216		
CH 605939	A5	19781013	CH 1974-1363	19740131 <--
RO 79057	A1	19820625	RO 1974-77478	19740131 <--
RO 84276	A1	19840523	RO 1974-106042	19740131 <--
BE 810545	A1	19740801	BE 1974-140502	19740201 <--
FR 2215968	A1	19740830	FR 1974-3491	19740201 <--
JP 49102693	A	19740927	JP 1974-13568	19740201 <--
JP 57048556	B	19821016		
DD 108989	A5	19741012	DD 1974-176324	19740201 <--
AU 7465129	A	19750807	AU 1974-65129	19740201 <--
GB 1445824	A	19760811	GB 1974-4808	19740201 <--
HU 170909	B	19770928	HU 1974-TO951	19740201 <--
CA 1041502	A1	19781031	CA 1974-191585	19740201 <--
NO 139386	C	19790228	NO 1974-327	19740201 <--
NO 139386	B	19781120		
DK 140760	B	19791112	DK 1974-563	19740201 <--
DK 140760	C	19800421		

SE 411451	B	19791227	SE 1974-1393		19740201 <--
SE 411451	C	19800417			
PL 93127	B1	19770530	PL 1974-168533		19740202 <--
ZA 7400695	A	19751029	ZA 1974-695		19740204 <--
US 3985891	A	19761012	US 1975-606886		19750822 <--
SU 634673	A3	19781125	SU 1975-2170503		19750827 <--
PRIORITY APPLN. INFO.:			DE 1973-2305339	A	19730203
			DE 1973-2361757	A	19731212
			US 1974-439362	A2	19740204

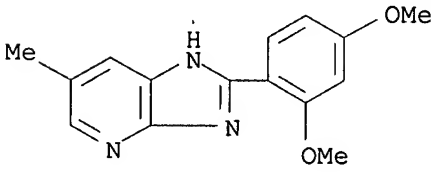
GI For diagram(s), see printed CA Issue.

AB Imidazopyridines (100 compds.) including the pos. inotropic I (R = OMe, R1 = 4-OMe, 4-Cl, 4-Me, 4-SMe, 4-SOMe, 5-SMe; R = OEt, R1 = 4-OMe, 4-Me; R = OCH2CH2SOMe, R1 = 4-OMe, 4-SMe) and some 3-alkyl and pyridine ring-substituted compds. were prepared Thus, 2,3-pyridinediamine was cyclized with 2,4-(MeO)2C6H3CO to give 85% I (R = OMe, R1 = 4-OMe) which at 1 + 10- nl increased the contraction amplitude of isolated guinea rium by 57%.

IT 53929-85-4P 53929-87-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 53929-85-4 CAPLUS

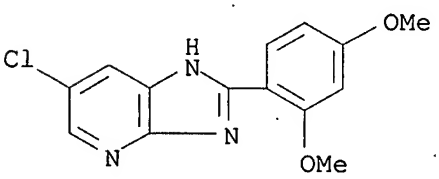
CN 1H-Imidazo[4,5-b]pyridine, 2-(2,4-dimethoxyphenyl)-6-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 53929-87-6 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine, 6-chloro-2-(2,4-dimethoxyphenyl)-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L5 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:	1969:47460 CAPLUS
DOCUMENT NUMBER:	70:47460
TITLE:	Herbicidal imidazo[4,5-b]pyridines
INVENTOR(S):	Allan, Leslie T.; Newbold, Geoffrey T.; Percival, Albert
PATENT ASSIGNEE(S):	Fisons Pest Control Ltd.
SOURCE:	S. African, 26 pp. CODEN: SFXXAB
DOCUMENT TYPE:	Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ZA 6705744		19680326		<--
DE 1670940			DE	
FR 1540740			FR	
GB 1186504			GB	
PRIORITY APPLN. INFO.:			GB	19661015

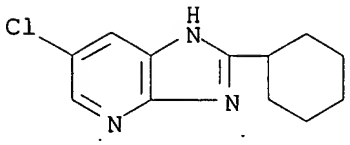
GI For diagram(s), see printed CA Issue.

AB The title compds. (I) are prepared by heating 2,3-diaminopyridine derivs. with RCO2H, which gives I (R1 = H), or with (RCO)2O, which gives I (R1 = RCO); or by treating I (R1 = H) with an acyl halide in Me2CO in the presence of Et3N. The following I were prepared (R, R1, R2, R3, % yield, and m.p. given): iso-Pr, H, H, Cl, 70, 190-2° (PhMe); isoamyl, H, H, Cl, -, 208-10°; iso-Bu, H, H, Cl, -, 207-8°; Et2CH, H, H, Cl, -, 183-4°; cyclohexyl, H, H, Cl, -, 238-40°; Me, H, H, Cl, -, 276-7°; Et, H, H, Cl, -, 232-3°; C5H11, H, H, Cl, -, 194-6°; Pr, H, H, Cl, -, 217-19°; tert-Bu, H, H, Cl, -, 235-7° (HCl salt m. 205-8°); iso-Bu, H, Br, Me, -, 157-9° (CHCl3-petroleum ether); iso-Pr, H, H, H, 70, 247-9° (C6H6-petroleum ether); Et, H, NO2, H, -, 253-5°; Me, H, Br, Me, -, 243-6°; Et2CH, H, H, H, -, 154-7°; iso-Bu, H, H, H, -, 137-9°; tert-Bu, H, H, H, -, 249-51°; tert-Bu, H, H, NO2, -, 233-5°; Pr, PrCO, H, Cl, 40, 92-4° (petroleum ether); Et, EtCO, H, Cl, -, 117-18°; iso-Pr, CO2Ph, Me, Cl, 48, 152-5° (petroleum ether); and iso-Pr, CO2Ph, Me, Br, -, 174-6°. Other compds. were listed., but no phys. properties were given. Herbicidal test results were given.

IT 21714-46-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 21714-46-5 CAPLUS

CN 1H-Imidazo[4,5-b]pyridine, 6-chloro-2-cyclohexyl- (8CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.66	293.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-17.16

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